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1 [Algorithms and programming models for efficient representation of XML for Internet applications](#)

Neel Sundaresan, Reshad Moussa

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: [pdf\(352.97 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: DOM, SAX, WBXML, XML, compression

2 [Combining RDF and XML schemas to enhance interoperability between metadata application profiles](#)

Jane Hunter, Carl Lagoze

April 2001 **Proceedings of the tenth international conference on World Wide Web**

Full text available: [pdf\(525.04 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: RDF, XML, XSLT, interoperability, metadata, schema

3 [A web based environment for learning to program](#)

Nghi Truong, Peter Bancroft, Paul Roe

February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16**

Full text available: [pdf\(1.51 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The purpose of this paper is to describe in detail the current development status of the innovative Environment for Learning to Program (ELP) which provides an interactive web-based environment for teaching programming to the first year Information Technology students at Queensland University of Technology (QUT). ELP allows students to program at the early stages of their course without the need to familiarize themselves with a program development environment. Most importantly, it eliminates all ...

Keywords: Java, XML, computer programming, online learning, tutoring system, web

- 4 QMView and GAMESS: integration into the world wide computational grid
Kim K. Baldridge, Jerry P. Greenberg, Stephen T. Elbert, Stephen Mock, Philip Papadopoulos
November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(650.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

High performance computing, storage, visualization, and database infrastructures are increasing geometrically in complexity as scientists move towards grid-based computing. While this is natural, it has the effect of pushing computational capabilities beyond the reach of scientists because of the time needed to harness the infrastructure. Hiding the complexity of networked resources becomes essential if scientists are to utilize them effectively. In this work, we describe our efforts to integrat ...

- 5 Very low bit-rate audio coding technique using MIDI representation
Toshio Modegi
January 2001 **Proceedings of the 11th international workshop on Network and operating systems support for digital audio and video**

Full text available:  [pdf\(869.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The MIDI interface is originally designed for electronic musical instruments but we consider this music-note based coding concept can be extended for general acoustic signal description. We proposed applying the MIDI technology to coding of bio-medical auscultation sound signals such as heart sounds for retrieving medical records and performing telemedicine. Then we have tried to extend our encoding algorithm and improve the coding precision based on Generalized Harmonic Analysis in order ...

Keywords: low bit-rate audio coding, sound source separation

- 6 Hypermedia and Graphics 2: Vector graphics: from PostScript and Flash to SVG
Steve Proberts, Julius Mong, David Evans, David Brailsford
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Full text available:  [pdf\(127.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The XML-based specification for Scalable Vector Graphics(SVG), sponsored by the World Wide Web consortium, allows for compact and descriptive vector graphics for the Web. This paper describes a set of three tools for creating SVG, either from first principles or via the conversion of existing formats. The *ab initio* generation of SVG is effected from a server-side CGI script, using a PERL library of drawing functions; later sections highlight the problems of converting Adobe PostScript and ...

Keywords: Flash, PDF, PostScript, SVG, SWF

- 7 Design: Formal design of SMIL presentations
Robert M. Newman, Elena I. Gaura
October 2003 **Proceedings of the 21st annual international conference on Documentation**

Full text available:  [pdf\(255.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

SMIL (Synchronised Multimedia Integration Language) is an XML language for the distribution of synchronised video, sound and other media in presentations, and is likely to be the preferred format for distribution of multimedia presentations that include synchronised and streamed media. Previous work has argued that conventional hypermedia design methods provide insufficient design rigour to allow their use with confidence for safety and mission critical applications. It was shown how formal meth ...

Keywords: SMIL, formal methods, hypermedia design

8 E-services: a look behind the curtain

Richard Hull, Michael Benedikt, Vassilis Christophides, Jianwen Su

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available:  pdf(269.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emerging paradigm of electronic services promises to bring to distributed computation and services the flexibility that the web has brought to the sharing of documents. An understanding of fundamental properties of e-service composition is required in order to take full advantage of the paradigm. This paper examines proposals and standards for e-services from the perspectives of XML, data management, workflow, and process models. Key areas for study are identified, including behavioral servi ...

9 Suede: a Wizard of Oz prototyping tool for speech user interfaces

Scott R. Klemmer, Anoop K. Sinha, Jack Chen, James A. Landay, Nadeem Aboobaker, Annie Wang

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**

Full text available:  pdf(592.26 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: Wizard of Oz, design, design tools, informal user interfaces, low-fidelity, prototyping, speech user interfaces

10 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation

Charles McLean, Frank Riddick

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available:  pdf(269.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

11 Formal methods: Using extended positional grammars to develop visual modeling languages

Gennaro Costagliola, Vincenzo Deufemia, Filomena Ferrucci, Carmine Gravino

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available:  pdf(200.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present the approach based on the formalism of Extended Positional Grammars for specifying, designing and implementing visual modeling languages. In order to stress the main characteristics of the approach and highlight its power, we describe the use of the formalism to implement statecharts languages which represent one of the most complex visual modeling languages used in the software engineering field. In the paper special emphasis is put on describing the benefits deriving f ...

Keywords: automatic generation of visual programming environments, extended positional grammars, formal specifications, statecharts, visual languages

12 Facilitating process management: The technical writer as software process catalyst

Kendall V. Scott

September 2000

Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork

Full text available:  pdf(684.48 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The emergence of a New Economy, fueled by business-to-business e-commerce and moves toward things like component-based development, and soon to be dominated by browser-based applications, is creating a shift in focus away from user documentation and towards what we might refer to as "systems documentation." This term encompasses includes any kind of documentation that describes the technical aspects of a software system for people like systems analysts, modelers, and software engineers, rather t ...

13 Documenting software systems with views III: towards a task-oriented classification of program visualization techniques

Scott Tilley, Shihong Huang

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available:  pdf(83.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Documentation has long played a key role in aiding program understanding. Graphical forms of documentation rely on software visualization techniques to make complicated information easier to understand. However, it is an open question exactly which types of graphical documentation are most suitable for which types of program understanding tasks (and in which specific usage contexts). This paper describes preliminary work towards a task-oriented classification of program visualization techniques. ...

Keywords: documentation, program understanding, visualization

14 Developing and integrating enterprise components and services: A goal-driven approach to enterprise component identification and specification

Keith Levi, Ali Arsanjani

October 2002 **Communications of the ACM**, Volume 45 Issue 10

Full text available:  pdf(180.66 KB)  html(56.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mapping a business architecture to a component-based software architecture.

15 Narratives and Literary Hypertext: Graphical notations, narratives and persuasion: a Pliant Systems approach to Hypertext Tool Design

Luke Emmet, George Cleland

June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Full text available:  pdf(356.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Adelard Safety Case Editor (ASCE) is a hypertext tool for constructing and reviewing structured arguments. ASCE is used in the safety industry, and can be used in many other contexts when graphical presentation can make argument structure, inference or other

dependencies explicit. ASCE supports a rich hypertext narrative mode for documenting traditional argument fragments. In this paper we document the motivation for developing the tool and describe its operation and novel features. Since us ...

Keywords: field experience, graphical notation, hypertext argumentation, plant systems, safety cases, safety related systems, technology adoption, usability

16 Parallel scheduling of programs in a restricted model of computation

K. Vairavan, R. A. DeMillo


April 1974 **Proceedings of the sixth annual ACM symposium on Theory of computing**

Full text available:  [pdf\(588.41 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The purpose of this paper is to present the basis of an automata-theoretic model which treats the concept of "schedule" for programs which admit a (predefined) degree of parallelism. After a brief review of notational conventions (Section 2), the class of representing automata will be introduced as a device for treating a program's control structure. In Section 4, since the definition of schedules is non-constructive in the sense that no procedure is given for passing ...

17 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  [pdf\(987.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

18 Online system performance measurements with software and hybrid monitors

Liba Svobodova

January 1973 **ACM SIGOPS Operating Systems Review , Proceedings of the fourth ACM symposium on Operating system principles**, Volume 7 Issue 4

Full text available:  [pdf\(575.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two monitors were implemented to collect information about the behavior of the online system developed and run at Stanford. The response of this online system was slow and main memory was a critical resource. The goal was to extract desired information by a method that requires only a negligible amount of monitored system resources. Results presented in this paper indicate that this effort has been successful. A software monitor that requires less than 700 bytes of main memory collects stat ...

19 Early user---system interaction for database selection in massive domain-specific online environments

Jack G. Conrad, Joanne R. S. Claussen

January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1

Full text available:  [pdf\(845.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The continued growth of very large data environments such as Westlaw and Dialog, in addition to the World Wide Web, increases the importance of effective and efficient database selection and searching. Current research focuses largely on completely autonomous and automatic selection, searching, and results merging in distributed environments. This fully automatic approach has significant deficiencies, including reliance upon thresholds below which databases with relevant documents are not search ...

Keywords: Database selection, metadata for retrieval, structuring information to aid search and navigation, user interaction

20 Computation of large scale constrained matrix problems: the splitting equilibration algorithm

Anna Nagurney, Alexander Eydeland, Dae-Shik Kim

November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

The *Constrained Matrix* problem is a core problem in numerous applications in the social and economic sciences, including: the estimation of input-output tables, trade tables, and social/national accounts, the projection of migration flows over space and time, the treatment of census data, the analysis of political voting patterns, and the estimation of contingency tables. In this paper we introduce a general parallelizable computational method called the Splitting Equilibration Algorithm ...

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1 Some inference rules for integer arithmetic for verification of flowchart programs on integers

Sarkar, D.C.; De Sarkar, S.C.;

Software Engineering, IEEE Transactions on , Volume: 15 , Issue: 1 , Jan. 1989
 Pages:1 - 9

[\[Abstract\]](#) [\[PDF Full-Text \(660 KB\)\]](#) **IEEE JNL**

2 Finite-state modeling in software design: some fundamental techniques

Kundu, S.;

Software Engineering Conference, 2002. Ninth Asia-Pacific , 4-6 Dec. 2002
 Pages:317 - 324

[\[Abstract\]](#) [\[PDF Full-Text \(248 KB\)\]](#) **IEEE CNF**

3 A tool suite for diagnosis and testing of software design specifications

Li, J.J.; Horgan, J.R.;

Dependable Systems and Networks, 2000. DSN 2000. Proceedings International Conference on , 25-28 June 2000
 Pages:295 - 304

[\[Abstract\]](#) [\[PDF Full-Text \(236 KB\)\]](#) **IEEE CNF**

4 On the compilation of statecharts models into target code for embedded systems

Erpenbach, E.; Stroop, J.; Rammig, F.J.;

Computer Aided Control System Design, 1999. Proceedings of the 1999 IEEE International Symposium on , 22-27 Aug. 1999
 Pages:249 - 254



[\[Abstract\]](#) [\[PDF Full-Text \(488 KB\)\]](#) IEEE CNF

5 The flowchart interpreter for introductory programming courses
Crews, T., Jr.; Ziegler, U.;
Frontiers in Education Conference, 1998. FIE '98. 28th Annual , Volume:
1 , November 4-7, 1998
Pages:307 - 312 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(736 KB\)\]](#) IEEE CNF

6 Assembly language software development system
Yuen, R.Y.K.; Yew, W.W.C.; Ng Chin Hon; Endo, S.;
ISCE '97 - Proceedings of 1997 IEEE International Symposium on Consumer
Electronics , 2-4 Dec. 1997
Pages:138 - 141

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) IEEE CNF

7 Reducing and estimating the cost of test coverage criteria
Marre, M.; Bertolino, A.;
Software Engineering, 1996., Proceedings of the 18th International Conference
on , 25-30 March 1996
Pages:486 - 494

[\[Abstract\]](#) [\[PDF Full-Text \(760 KB\)\]](#) IEEE CNF

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[Distributed Beagle: An Environment For Parallel And..](#) - Gagne, Parizeau.. (Correct)

stopping criterion is reached. Figure 1 depicts a **flowchart** of the general GA algorithm. GA has been widely Operations Stop? End Yes No Figure 1. Classic GA **Flowchart**. tween GA and GP lies mainly in the object allocators, standard containers, and **XML** readers/writers. The generic EC framework www.gel.ulaval.ca/~cgagne/pubs/hpcs03.pdf

[Object-Oriented Modeling Approaches to Agent-Based..](#) - Blake, Gomaa (Correct)

Casati [7] in the eFlow environment uses **flowchart** approaches to specify the workflow composition workflow and individual services are specified in an **XML** format. Benatallah [1] conducts research that uses formats, such as plain text, concrete objects, or **XML**, modeling approaches and agent support have a www.cs.georgetown.edu/~blakeb/pubs/blake_Gomaa_SELMAS2003.pdf

[Automatic Page Layout Using Genetic Algorithms for Electronic..](#) - Geigel, Loui (Correct)

stopping criteria satisfied? Finish Figure 1 -**Flowchart** for genetic algorithm process (2) Definition of page layouts are specified in a textual form using **XML** for printing or viewing over the Internet. The page. Final page layouts are specified in a textual, **XML**-based description, 9 which are interpreted by a www.jogle.com/Research/publications/spieFinal.pdf

[FANTOM+: The Interface for Functional Annotation of Mouse cDNA](#) - Bono, Kasukawa, Okido (Correct)

Snapshot of Web Interface of FANTOM Figure2: **Flowchart** of determining riken definition example, in FASTA cDNAs an eci e how to escribe riken ef. The **flowchart** in Figure 2 summarizes our current functional system of annotation records, and iv) arser for **XML** output (MaXML)The top page of FANTOM has FANTOM www.jsbi.org/journal/GIW00/GIW00D01.pdf

[Unknown - Computer Science December](#) (Correct)

DTDschema (build catalog) **XML**tables Figure 1 -**flowchart** of the **XML**DBMS system The Storage Manager The **XML**DBMS Computer Science 764 December 22, 1998 Henderson, Amy Rea, Suan Yong Introduction: **XML**-QL is a query language for obtaining data from **XML** www.cs.wisc.edu/~suan/Projects/cs764-xmldbms/report.ps.gz

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[Learning-by-teaching: Student generated Web-based Glossary.. - Pollard \(Correct\)](#)

CAT is illustrated by means of a two-level **flowchart** in Figure 1. Students are presented with World-Wide Web or how to program in Hyper-Text **Markup Language** (HTML) Rather, students are encouraged to fie.engrng.pitt.edu/fie99/papers/1021.pdf

[Promoting the Online Use of Radiology Appropriateness Criteria - Tjahjono, Kahn, Jr. \(1999\) \(Correct\)](#)

clinical practice guideline. Unlike algorithmic (**flowchart-type**) guidelines, which specify one for Ontologies, SGML =Standard Generalized **Markup Language** Index terms: Computers .Internet . www.mcw.edu/midas/RG-1999.pdf

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